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Water Supply Outlook For Oregon



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

OREGON DEPARTMENT OF WATER RESOURCES

AS OF
JUNE 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JUNE 1, 1979

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WATER RESOURCES

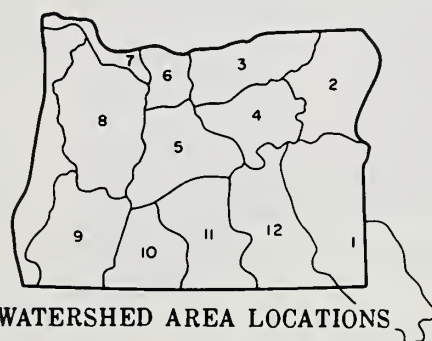
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WATER SUPPLY OUTLOOK FOR OREGON

J U N E 1, 1 9 7 9

* The general water supply outlook is favorable throughout Oregon. *
* Possible shortages may occur for irrigators who depend on direct *
* stream diversion in Jackson, Josephine, and Klamath Counties. *
* Streamflow in May was above average in many parts of the State. *
* May precipitation was above normal in western Oregon and average *
* or below over the rest of the State. *

SNOW COVER

Snow has melted from all areas except the very highest elevations in the State. Only the higher elevation areas of major ranges such as the Cascades and Wallowa Mountains have any significant snowpack remaining. Warm temperatures and clear weather in late May accelerated the melt rate in many areas.

PRECIPITATION

In general the first half of May was wet, the second half dry. Precipitation was above average in the Rogue, Umpqua and Klamath basins which helped the water supply outlook in these areas. The Hood River-Lower Deschutes area, Lake County and Harney Basin were much below average for the month. The rest of the State was near or slightly below average.

SOIL MOISTURE

Reports indicate that soil moisture in most mountain areas is near to below average.

RESERVOIR STORAGE

Most major irrigation reservoirs report average or above average storage for June 1. Twenty-four reservoirs have a storage of 2,451,700 acre feet compared to a June 1 average storage of 2,533,600 acre feet or 97% of average.

STREAMFLOW

Streamflow was generally much above average in May except for south central Oregon and on the Malheur River. This above normal runoff was due to heavy April and May rain combined with and followed by fairly rapid snow melt.

STREAMFLOW (Cont.)

Examples of May streamflow were:

<u>Stream</u>	<u>Percent of Average</u>
Owyhee Reservoir Inflow	114%
Chewaucan at Paisley	57%
John Day at Service Creek	178%
Upper Klamath Lake Inflow	75%
Grande Ronde at La Grande	168%
Willamette, Mid Fork nr. Oakridge	121%
Umpqua near Elkton	135%
Rogue at Raygold	114%
S. Walla Walla near Milton	121%

Forecasts of summer streamflow on representative Oregon streams are as follows:

<u>Stream</u>	<u>Period</u>	<u>Forecast % 1958-72 Avg.</u>
Owyhee net inflow	May-Sept.	141
Malheur nr. Drewsey	May-Sept.	75
Deschutes at Benham Falls	May-Sept.	82
Grande Ronde at LaGrande	May-Sept.	156
Willamette, Mid. Fk.nr. Oakridge	May-Sept.	110
Upper Klamath Lake net inflow	May-Sept.	68
Rogue At Raygold	May-Sept.	78
Silvies near Burns	May-Sept.	136

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS					
Bully Creek at Warm Springs	20	153	March-May		13.1
Malheur near Drewsey	24	75	May-July		32
	25	75	May-Sept.		33
Malheur, North Fork at Beulah	26	74	May-July		35
	30	75	May-Sept.		40
Owyhee Reservoir net Inflow	222	141	May-July	199	157
	255	141	May-Sept.	227	180
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Bear near Wallowa	59	102	May-Sept.		58
Burnt near Hereford	18.0	131	May-July		13.8
	19.4	131	May-Sept.		14.8
Catherine near Union	57	108	May-Sept.		53
Eagle Creek abv. Skull Creek	155	102	May-July		152
	171	103	May-Sept.		166
Grande Ronde at La Grande	145	158	May-July	80	92
	150	156	May-Sept.	86	96
Hurricane near Joseph	46	105	May-Sept.		44
Imnaha at Imnaha	264	104	May-Sept.		253
Lostine near Lostine	123	105	May-Sept.		117
Powder near Sumpter	44	110	May-July		40
	47	114	May-Sept.		41
Wallowa, East Fork near Joseph	7.9	93	May-July		8.5
	12.2	95	May-Sept.		10.7
Wallowa at Joseph	69	98	May-July		70
Wolf Creek net Inflow	8.4	110	May-June		7.6
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
McKay near Pilot Rock	13.5	153	May-Sept.		8.8
Umatilla near Gibbon	55	140	May-July		39
	63	140	May-Sept.		45
Umatilla at Pendleton	95	140	May-July		68
Walla Walla, South Fork near Milton	58	114	May-Sept.		51
Butter Creek nr. Pine City	6.0	176	May-July		3.4
UPPER JOHN DAY WATERSHEDS					
Camas Creek near Ukiah	20	125	May-July		16.2
John Day, Middle Fork at Ritter	90	134	May-July		67
	93	133	May-Sept.		70
John Day, North Fork at Monument	415	122	May-July		340
	432	122	May-Sept.		354
Strawberry near Prairie City	7.4	113	May-July		6.5
	7.7	106	May-Sept.		7.2

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
UPPER DESCHUTES, CROOKED WATERSHEDS					
Beaver Creek near Paulina	4.6	104	May-July		4.4
	4.8	104	May-Sept.		4.6
Crane Prairie Reservoir total Inflow	44	69	May-July		64
	71	68	May-Sept.		105
Crescent at Crescent Lake	8.5	55	May-July		15.6
	9.7	50	May-Sept.		19.6
Crooked near Post	80	250	May-July		32
Deschutes at Benham Falls	220	78	May-July		281
	387	82	May-Sept.		471
Deschutes below Snow Creek	38	67	May-Sept.		56
Deschutes, Little near La Pine	32	55	May-July		53
	41	50	May-Sept.		63
Ochoco Reservoir net Inflow	18.0	196	May-Sept.		9.2
Odell near Crescent	15.6	68	May-Sept.		23
Squaw near Sisters	35	75	May-Sept.		46
Tumalo near Bend	29	75	May-Sept.		39
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Hood River near Hood River	157	83	May-July		189
	196	84	May-Sept.		233
Hood, West Fork near Dee	74	87	May-July		85
	93	87	May-Sept.		107
White below Tygh Valley	68	87	May-July		79
	82	87	May-Sept.		94
LOWER COLUMBIA WATERSHEDS					
Columbia at The Dalles	62,220	81	May-July		76,815
	74,155	81	May-Sept.		91,550
Sandy River near Marmot	192	85	May-July		227
	245	87	May-Sept.		282
WILLAMETTE WATERSHEDS					
Clackamas at Estacada	363	81	May-July		447
	474	84	May-Sept.		562
Clackamas above Three Lynx	300	87	May-July		343
	393	89	May-Sept.		440
McKenzie at McKenzie Bridge	282	86	May-July		329
	419	88	May-Sept.		474
McKenzie near Vida	639	89	May-July		720
	861	91	May-Sept.		947
McKenzie, So. Fork near Rainbow	136	97	May-July		140
	170	101	May-Sept.		169
Oak Grove Fork above Power Intake	83	94	May-July		89
	122	95	May-Sept.		128
Row near Dorena	53	100	May-July		53
	58	100	May-Sept.		58
Santiam, North at Mehama	473	96	May-July		493
	580	97	May-Sept.		600
Santiam, South at Waterloo	339	105	May-July		323
	386	101	May-Sept.		382
Willamette, Mid Fk. blw. N. Fk. nr. Oakridge	520	112	May-July		462
	616	110	May-Sept.		562
Willamette, No. Fk. of Mid. Fk. near Oakridge	123	102	May-July	316	121
	142	101	May-Sept.	431	141
Willamette at Salem	2,641	101	May-July		2,619
	3,240	102	May-Sept.		3,615

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
ROGUE, UMPQUA WATERSHEDS					
Applegate near Copper	57	70	May-July		81
	61	70	May-Sept.		87
Clearwater above Trap Creek	54	95	May-Sept.		57
Fourmile Lake net Inflow	2.8	93	May-July		3.0
Hyatt Reservoir net Inflow	2.8	127	May-July		2.2
Illinois River near Kerby	68	75	May-July		91
	73	75	May-Sept.		97
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	8.6	75	May-Sept.		11.6
Little Butte, S. Fk. near Lake Creek	12.1	75	May-July		16.1
	13.6	75	May-Sept.		18.4
Rogue above Prospect	126	68	May-July		184
	168	70	May-Sept.		239
Rogue, South Fork near Prospect	33	72	May-July		46
	43	77	May-Sept.		56
Rogue at Raygold near Central Point	384	78	May-July	346	493
	508	78	May-Sept.	507	648
Rogue at Grants Pass	488	78	May-Sept.		627
Umoqua, No. blw. Lemolo Res. nr. Toketee Falls	104	75	May-Sept.		139
KLAMATH WATERSHEDS					
Clear Lake Reservoir Inflow	11.8	78	May-Sept.		15.1
Gerber Reservoir Inflow	3.0	63	May-Sept.		4.8
Sprague near Chiloquin	115	69	May-Sept.		166
Upper Klamath Lake net Inflow	240	68	May-Sept.	339	353
Williamson below Sprague River	187	65	May-Sept.	218	287
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Chewaucan near Paisley	35	62	May-July		56
	38	64	May-Sept.		60
Deep above Adel	45	103	May-July		43
	46	103	May-Sept.		45
Drews Reservoir net Inflow	7.8	80	May-July		9.7
Honey Creek near Plush	11.3	100	May-July		11.3
	11.5	101	May-Sept.		11.4
Silver Creek near Silver Lake	7.0	65	May-July		10.7
Twentymile near Adel	10.3	93	May-Sept.		11.1
HARNEY BASIN WATERSHEDS					
Donner und Blitzen near Frenchglen	50	134	May-July		37
	56	133	May-Sept.		42
Silver near Riley	5.5	107	May-July		5.1
Silvies River near Burns	45	136	May-July	33	33
	47	136	May-Sept.	37	35
Trout Creek near Denio	9.6	166	May-July		5.8
	10.4	168	May-Sept.		6.2

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS				
Beulah Reservoir	60.0	55.6	51.0	48.4
Bully Creek	30.0	27.1	27.7	21.2
Owyhee	715.0	714.4	710.9	610.8
Warm Springs	191.0	156.1	155.3	144.4
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS				
Phillips Lake	73.5	N/R	59.5	63.9
Thief Valley	17.4	17.4	17.4	16.4 ^b
Unity	25.2	24.4	24.7	22.4
Wallowa Lake	37.5	38.4	36.6	33.3
Wolf Creek	10.4	10.7	11.1	--
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS				
Cold Springs	50.0	48.1	44.9	45.3
McKay	73.8	67.8	67.9	56.2
UPPER DESCHUTES, CROOKED WATERSHEDS				
Crane Prairie	55.3	36.4	44.2	45.8
Crescent Lake	86.9	41.7	54.6	69.1
Ochoco	47.5	45.4	46.5	36.5
Prineville	153.0	158.7	153.0	143.3
Wickiup	200.0	154.7	174.0	166.3
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS				
Clear Lake (Wasco)	11.9	3.2	4.7	6.2

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
WILLAMETTE WATERSHEDS				
Blue River	85.6*	80.7	80.7	79.6
Cottage Grove	30.0*	28.9	28.8	27.3
Cougar	155.2*	146.3	124.3	141.5 ^b
Detroit	299.9*	280.5	242.6	277.1
Dorena	70.5*	66.0	67.8	64.5
Fall Creek	115.0*	110.3	96.4	108.4 ^b
Fern Ridge	94.2*	98.4	89.7	86.0
Foster	30.0*	24.9	65.8	22.5 ^b
Green Peter	270.0*	274.6	236.3	248.5 ^b
Hills Creek	200.0*	194.5	195.7	181.7
Lookout Point	337.2*	321.1	198.7	291.1
Timothy Lake	61.7	50.4	61.0	60.8
Henry Hagg Lake	53.0	53.6	53.4	--
* Multiple purpose reservoir--space reserved primarily for flood runoff.				
ROGUE, UMPQUA WATERSHEDS				
Emigrant Lake	39.0	37.8	35.9	37.1
Fish Lake	8.0	6.4	4.8	6.8
Fourmile Lake	16.1	11.9	6.0	12.7
Howard Prairie	60.0	60.3	50.1	57.4
Hyatt Prairie	16.1	16.2	14.2	15.0
Lost Creek	315.0	314.6	314.3	--
KLAMATH WATERSHEDS				
Clear Lake	440.2	165.8	223.5	286.5
Gerber	94.0	41.5	64.1	72.5
Upper Klamath Lake	584.0	472.0	496.6	519.2
LAKE COUNTY, GOOSE LAKE WATERSHEDS				
Cottonwood	8.7	N/R	8.9	6.9
Drews	63.0	N/R	59.8	56.6
Thompson Valley	19.5	N/R	17.8	--

BASIC DATA SUPPLEMENT 1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. ^c

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. ^c

Annie Spring	6/2	6	3.0	22.6	54.4 ^b
Bald Peter	6/1	0	0.0	--	29.3 ^b
Billie Cr. Divide	5/30	0	0.0	0.0	0.8 ^b
Billie Cr. Div. Pilw. (T)	5/30	--	0.0	--	--
Billie Cr. Div. Pilw. (S)	5/30	0	0.0	0.1	--
Billie Cr. Div. Pilw. (M)	5/30	--	0.0	0.0	--
Camas Creek #1	5/30	0	0.0	--	--
Camas Creek #2	5/30	0	0.0	--	--
Cascade Summit	5/29	2	1.2	0.0	9.4
Cascade Sum. Pilw. (S)	5/29	0	0.0	--	--
Clear Lake	5/25	0	0.0	0.0	0.5 ^b
Clear Lake Pilw. (S)	5/25	0	0.0	--	--
Clear Lake Expt.	5/25	0	0.0	0.0	1.3 ^b
Cold Spgs. Camp	5/29	4	2.1	9.2	12.3 ^b
Cold Spgs. Camp Pilw. (S)	5/29	0	0.0	0.0	13.3 ^b
Cold Spgs. Camp Pilw. (M)	5/29	--	0.0	0.0	--
Diamond-Ctr. Sum. Rev.	5/23	3	1.6	6.4	13.8 ^b
Diamond Lake	5/23	0	0.0	0.0	6.4 ^b
Diamond Lake Pilw. (S)	5/23	0	0.0	--	--
Fish Lake	5/30	0	0.0	--	--
Fish Lake Pilw. (S)	5/30	0	0.0	--	--
Fourmile Lake	5/30	0	0.0	0.0	2.6 ^b
Fourmile Lake Pilw. (T)	5/30	--	0.0	--	--
Fourmile Lake Pilw. (S)	5/30	0	0.0	9.3	4.6 ^b
Fourmile Lake Pilw. (M)	5/30	--	0.0	6.5	3.2 ^b
Hogg Pass	5/31	10	5.0	6.5	24.3 ^b
Hogg Pass Pilw. (S)	5/31	10	5.0	--	--
Hogg Pass Pilw. (M)	5/31	--	2.8	1.4	--
Hungry Falt	6/1	0	0.0	0.0	--
Jump Off Joe Pilw. (T)	5/31	--	0.0	--	--
Jump Off Joe Pilw. (S)	5/31	0	0.0	--	--
Jump Off Joe Pilw. (M)	5/31	--	0.0	0.0	--
Marion Forks	5/30	0	0.0	0.0	--
Marion Forks Pilw. (S)	5/30	0	0.0	--	--
Marion Forks Pilw. (M)	5/30	--	0.0	--	--
Mt. Hood Test Site (T)	6/1	--	30.3	--	53.9 ^b
Mt. Hood Test Site (S)	6/1	82	44.0	35.7	46.6 ^b
Mt. Hood Test Site (M)	6/1	--	32.4	33.2	--
Mud Ridge Pilw. (T)	5/30	--	0.0	--	--
Mud Ridge Pilw. (S)	5/30	0	0.0	0.0	10.7 ^b
Mud Ridge Pilw. (M)	5/30	--	0.0	0.0	10.8 ^b
New Dutchman #2	5/31	36	18.5	22.4	40.6 ^b
Park Headquarters	6/2	47	24.0	41.0	49.0 ^b
Quartz Mountain	5/29	0	0.0	0.0	--
Quartz Mtn. Pillow (S)	5/29	0	0.0	--	--
Quartz Mtn. Pillow (M)	5/29	--	0.0	--	--
Racing Creek	6/1	0	0.0	--	1.6 ^b
Railroad Overpass	5/29	0	0.0	0.0	--
Railroad Overpass Plw. (S)	5/29	0	0.0	--	--
Railroad Overpass Plw. (M)	5/29	--	0.0	--	--
Salt Creek Falls	5/29	0	0.0	0.0	1.6
Salt Cr. Falls Pilw. (S)	5/29	0	0.0	--	--
Santiam Junction	5/31	0	0.0	0.0	0.8 ^b
Santiam Junc. Pilw. (T)	5/31	--	0.0	--	--
Santiam Junc. Pilw. (S)	5/31	0	0.0	--	--
Santiam Junc. Pilw. (M)	5/31	--	0.0	0.0	--
Still Creek	5/30	0	0.0	0.0	7.5 ^b
Tangent	6/1	0	0.0	0.0	1.6 ^b
Whitewater Bridge	5/30	0	0.0	--	--

T = Telemetry Reading
S = Snow Tube Reading
M = Manometer Reading

BASIC DATA SUPPLEMENT 2

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average ^c
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	Discontinued			
Big Bend (Nev.)	6700	48	16.7	Discontinued			
Blue Mountain Spring	5900	42	16.9	5/1/79	11.0	--	12.1
Mud Flat (Ida.)	5500	48	12.8	Discontinued			
Rodeo Flat (Nev.)	6800	42	11.0	Discontinued			
Taylor Canyon (Nev.)	6200	48	15.1	Discontinued			
BURNT, POWDER, PINE, GRANDE RONDE WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	e			13.8
Dooley Mountain	5430	36	9.2	e		6.4	5.4
Emigrant Springs	3925	48	22.3	5/31/79	18.8	--	20.6
Ladd Summit	3730	48	18.9	Late Report		13.1	11.9
Moss Springs	5850	36	25.8	e			--
Tollgate	5070	48	23.6	e			18.4
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31/79	13.3	13.2	12.6
Emigrant Springs	3925	48	22.3	5/31/79	18.8	--	20.6
Tollgate	5070	48	23.6	e			18.4
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	5/31/79	13.3	13.2	12.6
Blue Mountain Spring	5900	42	16.9	6/1/79	11.0	--	12.1
Blue Mountain Summit	5100	36	16.8	e			13.8
Derr	5670	24	9.0	Late Report		9.0	8.7
Marks Creek	4540	36	14.1	Late Report		13.2	12.8
Snow Mountain	6300	48	16.7	Late Report		15.1	15.7
Starr Ridge	5150	36	10.6	6/1/79	10.5	10.5	9.6
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	Late Report		9.0	8.7
Marks Creek	4540	36	14.1	Late Report		13.2	12.8
Snow Mountain	6300	48	16.7	Late Report		15.1	15.7
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	5/29/79	9.3	9.9	10.0
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	5/30/79	12.2	12.6	11.0
Quartz Mountain	5230	48	15.3	5/29/79	9.3	9.9	10.0
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	e			12.1
Silvies	6900	48	16.4	e			--
Snow Mountain	6300	48	16.7	Late Report		15.1	15.7
Starr Ridge	5150	36	10.6	6/1/79	10.5	10.5	9.6
Willow-Bald	5000	24	6.6	5/31/79	6.5	6.5	5.8

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 3

PRECIPITATION (Inches)

PRECIPITATION (Inches)		CURRENT INFORMATION		PAST RECORD	
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	Date of Reading	Precipitation	Last Year	Average
Billie Creek Divide (Jackson County)	5310	From 4/26 to 5/30	4.68"		
Cascade Summit (Lane County)	4880	From 4/26 to 5/29	7.20"		
Clear Lake (Wasco County)	3500	From 4/26 to 5/25	1.08"		
Cold Springs (Klamath County)	6100	From 4/30 to 5/29	4.32"		
Fish Lake (Jackson County)	4665	From 4/26 to 5/30	4.56"		
Fourmile (Klamath County)	6000	From 4/27 to 5/30	5.04"		
Hogg Pass (Jefferson County)	4755	From 4/27 to 5/31	5.64"		
Jump Off Joe (Linn County)	3400	From 4/25 to 5/31	5.76"		
Marion Forks (Linn County)	2730	From 4/27 to 5/30	6.60"		
Mt. Hood Test Site (Clackamas County)	5555	From 4/30 to 6/1	5.50"		
Mud Ridge (Clackamas County)	3800	From 4/25 to 5/30	2.16"		
Railroad Overpass (Lane County)	2750	From 4/26 to 5/29	4.68"		
Salt Creek Falls (Lane County)	4000	From 4/26 to 5/29	6.00"		
Santiam Junction (Lane County)	3750	From 4/27 to 5/31	4.08"		
Blue Mountain Springs (Grant County)	5900	From 4/25 to 6/1	2.75"		

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



ERRATA: 1979 SNOW (WATER CONTENT) MEASUREMENT AVERAGES PUBLISHED
IN ERROR

SNOW COURSE	REPORT	AVERAGE
Chemult Alternate Previously Published	January	3.5 ^b
Correct Data	January	4.9 ^b
Chemult Alternate Previously Published	February	6.2 ^b
Correct Data	February	9.8
Chemult Alternate Previously Published	March	8.5 ^b
Correct Data	March	10.5
High Ridge Previously Published	January	12.5 ^b
Correct Data	January	14.4
High Ridge Previously Published	February	20.0 ^b
Correct Data	February	22.6
High Ridge Previously Published	March	26.5 ^b
Correct Data	March	29.4
High Ridge Previously Published	April	34.3 ^b
Correct Data	April	32.3
Mt. Hood Test Site(S) Previously Published	January	--
Correct Data	January	21.2 ^b
Mt. Hood Test Site(S) Previously Published	February	15.3 ^b
Correct Data	February	37.3 ^b
Mud Ridge Pillow(S) Previously Published	January	3.9 ^b
Correct Data	January	11.3
Mud Ridge Pillow(S) Previously Published	February	13.7 ^b
Correct Data	February	21.8

ERRATA: 1979 SNOW (WATER CONTENT) MEASUREMENT AVERAGES PUBLISHED
IN ERROR (CONT.)

SNOW COURSE	REPORT	AVERAGE
Mud Ridge Pillow(S)		
Previously Published	March	27.5 ^b
Correct Data	March	26.1
Mud Ridge Pillow(S)		
Previously Published	April	29.2 ^b
Correct Data	April	31.9
Mud Ridge Pillow(S)		
Previously Published	May	25.4 ^b
Correct Data	May	30.3
Summit Lake Pillow(S)		
Previously Published	January	14.0 ^b
Correct Data	January	--
Summit Lake Pillow(S)		
Previously Published	February	25.3 ^b
Correct Data	February	27.9 ^b
Summit Lake Pillow(S)		
Previously Published	March	28.5 ^b
Correct Data	March	33.1

ERRATA: 1979 PRECIPITATION MEASUREMENTS PUBLISHED IN ERROR

PRECIP. STATION NAME	REPORT	INCHES
Hyatt Prairie		
Previously Published	January	3.50"
Correct Data	January	No Report
Marks Creek		
Previously Published	February	8.25"
Correct Data	February	5.50"
ADD FOLLOWING INFORMATION:		
Moss Springs	April (1/29-4/4)	15.24"
Schneider Meadows	April (3/2-4/5)	13.80"
Taylor Green	April (3/2-4/5)	6.60"

ERRATA: 1979 SNOW MEASUREMENTS PUBLISHED IN ERROR

SNOW COURSE	REPORT	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)
Cascade Summit			
Previously Published	January		5.7
Correct Data	January		3.8
Billie Creek Divide(S)			
Previously Published	April	--	8.4
Correct Data	April	20	8.6
Billie Creek Divide(M)			
Previously Published	April	20	8.6
Correct Data	April	--	8.4
Mt. Howard			
Previously Published	April	78	28.0
Correct Data	April	76	26.6
ADD FOLLOWING INFORMATION:			
Moss Springs(S)	April	85	25.5
Moss Springs(M)	April	--	24.1
Schneider Meadows(M)	April	--	26.3
Taylor Green(S)	April	69	24.3
Taylor Green(M)	April	--	23.3



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